

**COMHELTACWINGPAC**  
**MH-60S AD MAINTENANCE TECHNICIAN**  
**OJT SYLLABUS**

**Name:** \_\_\_\_\_ **Rate:** \_\_\_\_\_

1. Prerequisite to final certification is supervisor confidence gained through satisfactory task performance. Satisfactory task performance shall be monitored and documented on the individual's OJT syllabus.

2. Qualification entries will be made when an individual is considered fully qualified to perform tasks without supervision. Work center supervisors have qualification certification authority.

3. Qualification, once achieved, is considered current until:

- a. qualification is removed for cause by command
- b. individual transfers to another unit.

4. Entries shall have the qualifier's initials and dates; at no time will vertical lines be used between initials and dates. The work center supervisor's initials and dates are mandatory.

5. This syllabus is used to document OJT leading to job task qualification by the work center supervisor. OJT events shall be documented for all related tasks until the trainee is qualified. The work center supervisor may sign off qualification when satisfied the trainee is fully qualified to perform tasks without supervision. This may be accomplished after only one OJT event or it may require many; the decision rests with the work center supervisor. This OJT syllabus is to be maintained in a centralized location accessible to the trainee at all times. Once completed, this form will be filed on the Right Side, Section 3, of the Qualification/Certification Record. When designated as a CDI, CDQAR, or QAR, this form will be filed in the Certification/Designation section of the Qualification/Certification Record (Left Side) behind the Designation form.

6. The work center supervisor is responsible and accountable for reviewing any member's previous OJT. The work center LPO may conduct a proficiency review with the member. Signature of work center LPO below states that all previous OJT Skill Certifications were reviewed.

Legible Signature of Work Center LPO: \_\_\_\_\_  
Date: \_\_\_\_\_

OJT/Instructor/Supervisor Sign off Key (print name then sign your initials):

Name: _____	Initials: ____	Name: _____	Initials: ____
Name: _____	Initials: ____	Name: _____	Initials: ____
Name: _____	Initials: ____	Name: _____	Initials: ____

OJT TASK:	QUALIFIER	DATE	W/C SUP	DATE
<b>ROTOR SYSTEMS/BLADES:</b>				
Remove/replace the Main Rotor Blades				
Track and balance Main Rotor				
Remove/replace Tail Rotor Blades				
Track and balance Tail Rotor				
Demonstrate use of Vibration Analysis Logic				
Remove/replace Main Rotor Head				
Remove/replace Main Rotor Head Spindle and Hinge Assembly				
Inspect and Identify by Part Number the Main Rotor Head Spindle and Hinge				
Remove/replace the Elastomeric Bearing				
Check Elastomeric Bearing for proper shimming				
Inspect the Elastomeric Bearing				
Remove/replace Main Rotor Head Inserts				
Remove/replace Centering Sockets				
Inspect Centering Sockets				
Remove/replace MRH Pitch Control Rods				
Remove/replace MRH Pitch Control Rod Bearings (Ball Bearings Only)				
Visually Inspect MRH Pitch Control Rod Elastomeric Bearings				
Remove/replace the Rotating Scissors				
Inspect the Rotating Scissors				
Remove/replace the Main Rotor Swashplate				
Inspect Main Rotor Swashplate Uniball for corrosion/teflon wear/chipped plating				
Remove/replace an Anti-Flap Assembly				
Inspect Anti-Flap Assembly				
Check Anti-Flap Assembly for proper shimming				
Check Lead Stop for proper shimming				
Remove/replace Spherical Bearings				
Remove/replace a Pitch Lock Actuator				
Remove/replace a Pitch Lock Liner				
Remove/replace a Pitch Horn Assembly				
Remove/replace the Bifilar Weights				
Inspect Bifilar Assembly				
Remove/replace Tail Rotor Seal Boot				

OJT TASK:	QUALIFIER	DATE	W/C SUP	DATE
Remove/replace Tail Rotor Pitch Control Links				
Perform Main Rotor Head Torque Check				
Calculate and perform a Trim Tab Adjustment				
Calculate and perform an Auto-rotation Pitch Control Rod Adjustment				
Calculate and perform Blade Pre-Track Adjustment				
Perform Main Rotor Head Balance Hub Weight Adjustment				
Perform Micrometer readings on Spindle Shaft and Elastomeric Bearing				
Perform shimming of Elastomeric Bearing to Spindle Shaft				
Demonstrate Pylon Fold procedures				
Review Hung Droop Stop Procedures				
Explain Rotor System Theory of Operation				
Perform Serial Number Verification on Main Rotor Head Components				
Adjust Centering Sockets				
Shim Rotating Scissors				
<b>TURBINE SHAFT ENGINES:</b>				
Remove/replace an Air Inlet Duct				
Remove/replace the Engine Control Quadrant				
Remove/replace the Pneumatic Starter				
Remove/replace the T700-GE-401C Engine				
Inspect Engine Mounts/Links				
Remove/replace a Forward Support Tube				
Remove/replace an Output Shaft				
Remove/replace the Deswirl Duct				
Remove/replace a HIRSS				
Remove/replace the Anti-Ice/Start Bleed Valve				
Remove/replace the Load Demand Spindle (LDS) Control Cable				
Rig LDS System				
Remove/replace Power Available Spindle (PAS) Control Cable				
Rig PAS System				
Remove/replace Quick Engine Change Assembly (QECA) Components				
Inspect Engine Frame and Cases				
Inspect Inlet Guide Vane (IGV) Actuating Levers				
Inspect Stages 1 and 2 Vane Actuating Rings				
Fault isolate Overspeed and Drain				

OJT TASK:	QUALIFIER	DATE	W/C SUP	DATE
Fault isolate HMU				
Troubleshoot Oil System				
Troubleshoot Fuel System				
Troubleshoot Air System				
Troubleshoot Engine Electrical System				
Service Engine Oil System				
Leak check Engines				
Perform Engine Preservation				
Perform Engine De-preservation				
Perform Engine Borescope Inspection				
Review Engine Post-shutdown Fire Emergency Procedures				
Review Internal Engine Fire Emergency Procedures				
Review External Engine Fire Emergency Procedures				
Fault Isolate engine failure to Shutdown with Fuel and Ignition Switch				
Explain the basic theory of engine operation				
Borescope Output Shaft Flexible Coupling				
Inspect/replace LDS roll-pins				
Paint stripe on LDS Control Cable/Collective Bias-Tube				
Friction test LDS Cable				
Perform Engine Hot Section Cleaning				
<b>ENGINE ELECTRICAL SYSTEM:</b>				
Remove/replace Thermocouple Assembly				
Remove/replace Igniter Plugs				
Inspect an Igniter Plug				
Remove/replace a Power Turbine Overspeed Sensor				
Explain Engine Electrical System Theory of Operation				
Remove/replace a Torque Sensor				
<b>ENGINE FUEL/OIL SYSTEMS:</b>				
Perform a Wrench Arc Tightening Procedure				
Preserve/de-preserve Engine Fuel System				
Remove/replace a Hydro-mechanical Control Unit (HMU)				
Perform ECU Lockout of the HMU				
Remove/replace the HMU Pad Carbon Seal				
Remove/replace a Boost Pump				
Inspect a Boost Pump				
Remove/replace a Fuel Filter				

<b>OJT TASK:</b>	<b>QUALIFIER</b>	<b>DATE</b>	<b>W/C SUP</b>	<b>DATE</b>
Remove/replace the Main Fuel Manifold				
Inspect Fuel Injectors				
Remove/replace the Overspeed and Drain Valve				
Remove/replace the Overspeed and Drain Valve Manifold				
Preserve/de-preserve the Engine Oil System				
Remove/replace an Oil Filter				
Remove/replace a Scavenge Screens				
Remove/replace the Relief Valve Assembly				
Remove/replace the Lube and Scavenge Pump				
Remove/replace the Engine Oil Cooler				
Remove/replace the Oil Filter Bypass Sensor				
Remove/replace an Inlet Particle Separator Carbon Seal				
Remove/replace the Engine Chip Detector				
Inspect the Engine Chip Detector				
Fault Isolate the Oil Pressure Transmitter				
Explain the Oil System Theory of Operation				
Preserve Engine with MIL-PRF-1010				
<b>AUXILIARY POWER UNIT:</b>				
Explain APU Theory of Operation				
Remove/replace Auxiliary Power Unit (APU)				
Remove/replace APU Mount Struts				
Inspect APU Mount				
Remove/replace the Acceleration Control				
Remove/replace the Inlet Fuel Filter				
Remove/replace the Outlet Fuel Filter				
Remove/replace the Start Fuel Nozzle				
Remove/replace the Oil Filter				
Remove/replace the APU Fuel Pump				
Remove/replace the Start Bleed Bypass Valve				
Remove/replace the APU Shutoff Valve				
Remove/replace the Magnetic Speed Sensor				
Manually open the APU Start Valve				
Perform Operational Checkout				
Identify bit codes on the APU ESU				
Troubleshoot the APU				

OJT TASK:	QUALIFIER	DATE	W/C SUP	DATE
Remove/replace the APU Igniter Plug				
<b>TRANSMISSION/ROTARY SYSTEM:</b>				
Remove/replace an Accessory Module				
Remove/replace Input Module				
Remove/replace Main Transmission Module				
Remove/replace the Main Module Chip Detector				
Inspect Main Module Chip Detector				
Remove/replace Tail Takeoff Flange				
Remove/replace Main Module Oil Filter				
Remove/replace Main Module Lube and Scavenge Pump				
Remove/replace Pinion Input Seal				
Remove/replace the Fan, Duct, and Shaft Assy				
Remove/replace the Radiator Assembly				
Remove/replace the Thermostatic Relief Valve				
Inspect fan/radiator supports for cracks and security				
Remove/replace Tail Drive Shaft Assembly Section No. 1				
Remove/replace Tail Drive Shaft Assembly Sections No. 2 thru 6				
Remove/replace the Intermediate Gearbox (IGB)				
Remove/replace the IGB Input Seal				
Remove/replace the IGB Output Seal				
Remove/replace the IGB Chip Detector				
Inspect the IGB Chip Detector				
Remove/replace the Tail Gearbox (TGB)				
Remove/replace the TGB Input Seal				
Remove/replace the TGB Output Seal				
Remove/replace the TGB Chip Detector				
Inspect the TGB Chip Detector				
Remove/replace a Viscous Damper Bearing and Tube Assembly				
Service a Viscous Damper				
Remove/replace a Tail Drive Shaft Flexible Coupling and perform Stack-up Procedures				
Remove/Replace the Tail Rotor Outer Retention Plate				
Remove/replace the Tail Rotor Inner Retention Plate				
Remove/replace the Disconnect Coupling Shaft				
Remove/replace the Disconnect Coupling Jaw, Seal Housing, and				

OJT TASK:	QUALIFIER	DATE	W/C SUP	DATE
Spring				
Inspect Main Module Mounting Feet				
Perform Main Mounting Bolt Torque Stabilization Check				
Fault Isolate a Chip Light				
Perform Tail Rotor Inboard Retention Plate Torque Check				
Perform Tail Rotor Rod End Bearing Inspection with Teflon Feeler Gauge (Ball Bearing only)				
Take Main Module Oil Samples				
Take IGB Oil Samples				
Take TGB Oil Samples				
Troubleshoot Low Oil Pressure				
Troubleshoot High Oil Pressure				
Troubleshoot Fluctuating Oil Pressure				
Troubleshoot Transmission Modules RPM Vibrations				
Troubleshoot Main Rotor RPM Vibrations				
Troubleshoot Tail Drive Shaft RPM Vibrations				
Troubleshoot Tail Rotor RPM Vibrations				
Remove/replace Main Gear Box Pressure Regulating Valves				
Explain Transmission System Theory of Operation				
Perform Tail Rotor Drive Shaft Alignment Check				
Visually Inspect Tail Rotor Rod End Elastomeric Bearing				
Perform Tail Rotor Clamp Up Procedures				
<b>AIRCRAFT FUEL SYSTEMS:</b>				
Discuss Fuel Cell Safety Precautions				
Remove/replace the Cross feed Check Valve				
Remove/replace a Fuel Dump Pump				
Remove/replace a Pre-check Valve				
Remove/replace an Inlet Check Valve				
Remove/Replace Pressure Refuel and Defuel Shutoff Valve				
Remove/replace the Pressure Fuel Receptacle				
Remove/replace a Fuel Selector Valve				
Remove/replace Prime Boost				
Remove/replace Helicopter In Flight Refueling (HIFR) Check Valve				
Remove/replace HIFR Go/No Go Gauge				

<b>OJT TASK:</b>	<b>QUALIFIER</b>	<b>DATE</b>	<b>W/C SUP</b>	<b>DATE</b>
Remove/replace HIFR Fuses				
Remove/replace the Fuel Vent Lines				
Remove/replace a Fuel Selector Valve				
Fault isolate Fuel Prime System				
Fault isolate Fuel Cell Leaks				
Pressure Test Fuel Cells				
Explain Fuel System Theory of Operation				
Remove/replace Fuel Panel (Fuel Cell Race Track)				
Remove/replace Fuel Pallet				
<b>MISCELLANEOUS UTILITIES:</b>				
Remove/replace Fire Extinguisher Container				
Remove/replace Discharge Lines				
Remove/replace Directional Valve				
Remove/replace Fire Extinguishing Components				
<b>MISCELLANEOUS INSPECTIONS:</b>				
Define FOD				
Perform 7 Day Inspection				
Perform 14 Day Inspection				
Perform 28 Day Inspection				
Perform 56 Day Inspection				
Perform 364 Day Inspection				
Perform 525 Hour Inspection				
Perform 30 Hour Inspection				
Perform 60 Hour Inspection				
Perform 1000 Hour Inspection				
Perform a Phase A Inspection				
Perform a Phase B Inspection				
Perform a Phase C Inspection				
Perform a Phase D Inspection				